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1 Secure virtual private networks: the future of data communications

Eli Herscovitz

August 1999 **International Journal of Network Management**, Volume 9 Issue 4

Full text available: pdf(230.05 KB) Additional Information: full citation, abstract, index terms

The Internet is an almost ideal means for information retrieval and exchange. It is cost-effective, easy to use and easily accessible. However, it can also be susceptible to devious practices such as data tempering, eavesdropping and theft. This paper analyses secure virtual private networks (VPNs) and their use in countering the problems of the Internet. Copyright © 1999 John Wiley & Sons, Ltd.

2 GPRS and UMTS release 2000 A11-IP option

Jonne Soininen

July 2000 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 4 Issue 3

Full text available: pdf(1.47 MB) Additional Information: full citation, abstract, index terms

This article will describe to the reader the Universal Mobile Telecommunications System (UMTS) packet switched architecture and the UMTS release currently under specification --- Release 2000. The article will discuss the relevant features of the Release 1999 architecture in order to give the reader the background knowledge to understand the Release 2000 IP Multimedia architecture. Aspects of the Release 2000 are described in greater detail when the topic is especially interesting and revolution ...

3 Characterizing processor architectures for programmable network interfaces

Patrick Crowley, Marc E. Fluczynski, Jean-Loup Baer, Brian N. Bershad

May 2000 **Proceedings of the 14th international conference on Supercomputing**

Full text available: pdf(984.97 KB) Additional Information: full citation, abstract, references, citings, index terms

The rapid advancements of networking technology have boosted potential bandwidth to the point that the cabling is no longer the bottleneck. Rather, the bottlenecks lie at the crossing points, the nodes of the network, where data traffic is intercepted or forwarded. As a result, there has been tremendous interest in speeding those nodes, making the equipment run faster by means of specialized chips to handle data trafficking. The Network Processor is the blanket name thrown ...

4 Mobile networking in the Internet

Charles E. Perkins

December 1998 **Mobile Networks and Applications**, Volume 3 Issue 4

Full text available: pdf(166.90 KB) Additional Information: full citation, abstract, references, citings, index terms

Computers capable of attaching to the Internet from many places are likely to grow in popularity until they dominate the population of the Internet. Consequently, protocol research has shifted into high gear to develop appropriate network protocols for supporting mobility. This introductory article attempts to outline some of the many promising and interesting research directions. The papers in this special issue indicate the diversity of viewpoints within the research community, and it is ...

5 An end-to-end approach to host mobility

Alex C. Snoeren, Hari Balakrishnan

August 2000 **Proceedings of the 6th annual international conference on Mobile computing and networking**

Full text available: pdf(1.35 MB) Additional Information: full citation, abstract, references, citings, index terms

We present the design and implementation of an end-to-end architecture for Internet host mobility using dynamic updates to the Domain Name System (DNS) to track host location. Existing TCP connections are retained using secure and efficient connection migration, enabling established connections to seamlessly negotiate a change in endpoint IP addresses without the need for a third party. Our architecture is secure—name updates are effected via the secure DNS update protocol, while TCP ...

6 Active network vision and reality: lessions from a capsule-based system

David Wetherall

December 1999 **ACM SIGOPS Operating Systems Review , Proceedings of the seventeenth ACM symposium on Operating systems principles**, Volume 33 Issue 5

Full text available: pdf(1.87 MB) Additional Information: full citation, abstract, references, citings, index terms

Although active networks have generated much debate in the research community, on the whole there has been little hard evidence to inform this debate. This paper aims to redress the situation by reporting what we have learned by designing, implementing and using the ANTS active network toolkit over the past two years. At this early stage, active networks remain an open research area. However, we believe that we have made substantial progress towards providing a more flexible network layer while ...

7 Mobile IP and the IETF

Charles E. Perkins

January 2000 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 4 Issue 1

Full text available: pdf(691.83 KB) Additional Information: full citation, index terms

8 Mobile IP and the IETF

Charles E. Perkins

April 2000 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 4 Issue 2

Full text available: pdf(631.96 KB) Additional Information: full citation, index terms

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1 **IPsec-WIT: the NIST IPsec Web-based interoperability test system**
Glenn, R.; Frankel, S.; Montgomery, D.;
Enabling Technologies: Infrastructure for Collaborative Enterprises, 2000. (W ICE 2000). Proeedings. IEEE 9th International Workshops on , 14-16 June 20 Pages:147 - 152

[Abstract] [PDF Full-Text (452 KB)] **IEEE CNF**

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1 **Application of virtual private networking technology to standards-b management protocols across heterogeneous firewall-protected netw**
O'Guin, S.; Williams, C.K.; Selimis, N.;
Military Communications Conference Proceedings, 1999. MILCOM 1999.
IEEE , Volume: 2 , 31 Oct.-3 Nov. 1999
Pages:1251 - 1255 vol.2

[Abstract] [PDF Full-Text (512 KB)] **IEEE CNF**

Published since January 1947 and Published before October 2000
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1 Secure virtual private networks: the future of data communications
Eli Herscovitz
August 1999 **International Journal of Network Management**, Volume 9 Issue 4
Full text available: pdf(230.05 KB) Additional Information: full citation, abstract, index terms

The Internet is an almost ideal means for information retrieval and exchange. It is cost-effective, easy to use and easily accessible. However, it can also be susceptible to devious practices such as data tempering, eavesdropping and theft. This paper analyses secure virtual private networks (VPNs) and their use in countering the problems of the Internet. Copyright © 1999 John Wiley & Sons, Ltd.

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Published since January 1959 and Published before January 2001
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1 Embedding a relational data sublanguage in a general purpose programming language

Eric Allman, Michael Stonebraker, Gerald Held
February 1973 **ACM SIGPLAN Notices , Proceedings of the 1976 conference on Data : Abstraction, definition and structure**, Volume 8 Issue 2

Full text available: pdf(760.92 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper describes EQUEL, a programming language which embeds the relational data sublanguage QUEL into the general purpose programming language "C". Both QUEL and EQUEL are operational parts of the INGRES relational data base management system at Berkeley. Also briefly described are two operational subsystems written in this combined language. Lastly some of the language oriented shortcomings that have been observed in QUEL and EQUEL are discussed.

2 Papers: TCP byte counting refinements

Mark Allman
July 1999 **ACM SIGCOMM Computer Communication Review**, Volume 29 Issue 3

Full text available: pdf(706.18 KB) Additional Information: full citation, abstract, references, citings

TCP's delayed acknowledgment algorithm has been shown to hurt TCP performance. One method of gaining the performance lost by reducing the number of acknowledgments sent is to use a *limited byte counting* algorithm. However, we show that as outlined in [All98], limited byte counting is too aggressive in some situations. This paper defines an *appropriate byte counting* algorithm to fix this aggressiveness. This paper shows that appropriate byte counting is a better overall algorithm. I ...

3 Papers: On the effective evaluation of TCP

Mark Allman, Aaron Falk
October 1999 **ACM SIGCOMM Computer Communication Review**, Volume 29 Issue 5

Full text available: pdf(1.36 MB) Additional Information: full citation, abstract, references, citings

Understanding the performance of the Internet's Transmission Control Protocol (TCP) is important because it is the dominant protocol used in the Internet today. Various testing methods exist to evaluate TCP performance, however all have pitfalls that need to be understood prior to obtaining useful results. Simulating TCP is difficult because of the wide range of variables, environments, and implementations available. Testing TCP modifications in the global Internet may not be the answer either: ...

4 Papers: A web server's view of the transport layer
Mark Allman
October 2000 **ACM SIGCOMM Computer Communication Review**, Volume 30 Issue 5
Full text available: pdf(1.23 MB) Additional Information: full citation, abstract, references, citings

This paper presents observations of traffic to and from a particular World-Wide Web server over the course a year and a half. This paper presents a longitudinal look at various network path properties, as well as the implementation status of various protocol options and mechanisms. In particular, this paper considers how World-Wide Web clients utilize TCP connections to transfer web data; the deployment of various TCP and HTTP options; the range of round-trip times observed in the network; packe ...

5 Networking: introduction
Mark Allman
September 1995 **Crossroads**, Volume 2 Issue 1
Full text available: html(13.46 KB) Additional Information: full citation, index terms

6 Performance enhancements to a relational database system
Michael Stonebraker, John Woodfill, Jeff Ranstrom, Marguerite Murphy, Marc Meyer, Eric Allman
June 1983 **ACM Transactions on Database Systems (TODS)**, Volume 8 Issue 2
Full text available: pdf(1.33 MB) Additional Information: full citation, abstract, references, citings, index terms

In this paper we examine four performance enhancements to a database management system: dynamic compilation, microcoded routines, a special-purpose file system, and a special-purpose operating system. All were examined in the context of the INGRES database management system. Benchmark timings that are included suggest the attractiveness of dynamic compilation and a special-purpose file system. Microcode and a special-purpose operating system are analyzed and appear to be of more limited uti ...

Keywords: compiled query languages, database performance, file systems for databases, microcode

7 On estimating end-to-end network path properties
Mark Allman, Vern Paxson
August 1999 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Applications, technologies, architectures, and protocols for computer communication**, Volume 29 Issue 4
Full text available: pdf(1.75 MB) Additional Information: full citation, abstract, references, citings, index terms

The more information about current network conditions available to a transport protocol, the more efficiently it can use the network to transfer its data. In networks such as the Internet, the transport protocol must often form its own estimates of network properties based on measurements performed by the connection endpoints. We consider two basic transport estimation problems: determining the setting of the retransmission timer (RTO) for a reliable protocol, and estimating the bandwidth availa ...

8 On the generation and use of TCP acknowledgments
Mark Allman
October 1998 **ACM SIGCOMM Computer Communication Review**, Volume 28 Issue 5
Full text available: pdf(1.56 MB) Additional Information: full citation, abstract, citings, index terms

This paper presents a simulation study of various TCP acknowledgment generation and utilization techniques. We investigate the standard version of TCP and the two standard

acknowledgment strategies employed by receivers: those that acknowledge each incoming segment and those that implement delayed acknowledgments. We show the delayed acknowledgment mechanism hurts TCP performance, especially during slow start. Next we examine three alternate mechanisms for generating and using acknowledgments de ...

9 An evaluation of TCP with larger initial windows

Mark Allman, Chris Hayes, Shawn Ostermann

July 1998 **ACM SIGCOMM Computer Communication Review**, Volume 28 Issue 3

Full text available: pdf(950.94 KB) Additional Information: full citation, abstract, citings, index terms

TCP's slow start algorithm gradually increases the amount of data a sender injects into the network, which prevents the sender from overwhelming the network with an inappropriately large burst of traffic. However, the slow start algorithm can make poor use of the available bandwidth for transfers which are small compared to the bandwidth-delay product of the link, such as file transfers up to few thousand characters over satellite links or even transfers of several hundred bytes over local area ...

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L Number	Hits	Search Text	DB	Time stamp
1	42	(sterling and (commerce software)).as.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/15 15:48
-	1095	(709/245).CCLS.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/14 14:41
-	362	((709/245).CCLS.) and translat$3	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/14 14:42
-	181	(((709/245).CCLS.) and translat$3) and @ad<20000905	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/14 15:00
-	32	((((709/245).CCLS.) and translat$3) and @ad<20000905) and (address near port)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/14 14:42
-	8515	@ad<20000905 and ((tcp port) same (encod$3 encrypt$3))	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/14 15:01
-	2892	@ad<20000905 and ((address and (tcp port)) same (encod$3 encrypt$3))	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/14 15:01
-	1710	@ad<20000905 and ((address same (tcp port)) same (encod$3 encrypt$3))	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/14 15:01
-	445	@ad<20000905 and ((address near3 port) same (encod$3 encrypt$3))	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/14 15:48
-	148	(@ad<20000905 and ((address near3 port) same (encod$3 encrypt$3))) and network and packet	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/14 15:02
-	92	((@ad<20000905 and ((address near3 port) same (encod$3 encrypt$3))) and network and packet) and header	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/14 15:02
-	6	@ad<20000905 and ((address near4 port near4 header) same (encod$3 encrypt$3)) and network and packet	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/15 08:12
-	94	(ipsec ipc) same nat	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/15 15:48

L Number	Hits	Search Text	DB	Time stamp
-	3	minnig.in.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/14 08:11
-	3	(pullen and glenn).in.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/12 10:52
-	91	"sterling commerce"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/12 10:52
-	28	"sterling commerce"	EPO; JPO; DERWENT; IBM_TDB	2004/04/12 14:57
-	1	lstp and ibm	EPO; JPO; DERWENT; IBM_TDB	2004/04/12 14:59
-	0	((nat "address translation") and (ftp) and (firewall) and proxy)	EPO; JPO; DERWENT; IBM_TDB	2004/04/12 14:59
-	394	socks and server	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/12 15:35
-	169	socks and firewall	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/12 15:35
-	57	socks and firewall and (nat "address translation")	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/12 15:35
-	38	((nat "address translation") and (firewall))	EPO; JPO; DERWENT; IBM_TDB	2004/04/12 15:41
-	9	(((nat "address translation") and (firewall))) and @ad<20000905	EPO; JPO; DERWENT; IBM_TDB	2004/04/12 15:44
-	1	2002-291881.NRAN.	DERWENT	2004/04/12 15:42
-	205	@ad<20000905 and ((ip near address) and (nat "address translation" readdress$3) and firewall)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/12 15:45
-	2	@ad<20000905 and ((ip near address) and (nat "address translation" readdress$3) and firewall)	EPO; JPO; DERWENT; IBM_TDB	2004/04/12 15:46
-	205	@ad<20000905 and ((ip near address) and (nat "address translation" readdress$3) and firewall)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/12 16:12
-	135	(@ad<20000905 and ((ip near address) and (nat "address translation" readdress$3) and firewall)) and ((private$2 internal$2) near network)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/12 16:13
-	137	(@ad<20000905 and ((ip near address) and (nat "address translation" readdress$3) and firewall)) and ((private$2 internal$2) near (network lan wan man))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/12 16:13
-	98	(@ad<20000905 and ((ip near address) and (nat "address translation" readdress$3) and firewall)) and (((private$2 internal$2) near (network lan wan man)) same (address port))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/12 16:14

-	77	((@ad<20000905 and ((ip near address) and (nat "address translation" readdress$3) and firewall)) and (((private$2 internal$2) near (network lan wan man)) same (address port))) and (encrypt$3 encod$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/13 07:56
-	51	(((@ad<20000905 and ((ip near address) and (nat "address translation" readdress$3) and firewall)) and (((private$2 internal$2) near (network lan wan man)) same (address port))) and (encrypt$3 encod$3)) and socket	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/13 07:47
-	8	((((@ad<20000905 and ((ip near address) and (nat "address translation" readdress$3) and firewall)) and (((private$2 internal$2) near (network lan wan man)) same (address port))) and (encrypt$3 encod$3)) and socket) and socks	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/13 07:53
-	45	((((@ad<20000905 and ((ip near address) and (nat "address translation" readdress$3) and firewall)) and (((private$2 internal$2) near (network lan wan man)) same (address port))) and (encrypt$3 encod$3)) and socket) not underwood.in.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/13 07:53
-	38	((@ad<20000905 and ((ip near address) and (nat "address translation" readdress$3) and firewall)) and (((private$2 internal$2) near (network lan wan man)) same (address port))) and ((encrypt$3 encod$3) adj2 (port address))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/13 07:56
-	38	((((@ad<20000905 and ((ip near address) and (nat "address translation" readdress$3) and firewall)) and (((private$2 internal$2) near (network lan wan man)) same (address port))) and ((encrypt$3 encod$3) adj2 (port address))) not (((((@ad<20000905 and ((ip near address) and (nat "address translation" readdress$3) and firewall)) and (((private$2 internal$2) near (network lan wan man)) same (address port))) and (encrypt$3 encod$3)) and socket) and socks)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/13 09:37
-	16	@ad<20000905 and ipsec and (router gateway) and inner	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/13 10:47
-	11	@ad<20000905 and ipsec and (router gateway) and inner and port and address	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/13 10:39
-	77	(read and stephen).in.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/13 10:39
-	23	((read and stephen).in.) and ip	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/13 10:39
-	14	((read and stephen).in.) and network	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/13 10:39

-	1	("6182125").PN.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/13 11:01
-	1	("6697354").PN.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/13 11:01
-	600	ipsec and tunnel$4	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/13 14:16
-	140	(ipsec and tunnel$4) and @ad<20000905	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/13 14:17
-	87	((ipsec and tunnel$4) and @ad<20000905) and firewall	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/13 14:17
-	73	(((ipsec and tunnel$4) and @ad<20000905) and firewall) and header	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/13 14:17
-	190	(((encrypt$3 encod$3) adj2 payload) same header)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/14 08:11
-	14	@ad<20000905 and (((encrypt$3 encod$3) adj2 payload) same header) and ((internal external) near (network address))	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/14 09:07
-	21	@ad<20000905 and (((encrypt$3 encod$3) adj2 payload) same header) and ((source destination) near (port address))	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/14 09:08
-	11	(@ad<20000905 and (((encrypt$3 encod$3) adj2 payload) same header) and ((source destination) near (port address))) not (@ad<20000905 and (((encrypt$3 encod$3) adj2 payload) same header) and ((internal external) near (network address)))	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/14 09:07
-	5	@ad<20000905 and (((encrypt$3 encod$3) adj2 payload) same header) and ((source destination) near (address)) and ((source destination) near (port))	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/14 09:24
-	0	@ad<20000905 and (readdress$3) and (address port) and ((encod$3 encrypt$3) near2 (payload header))	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/14 09:25
-	29	@ad<20000905 and (readdress$3) and (address port) and ((encod$3 encrypt$3) and (payload header))	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/14 09:25
-	20	@ad<20000905 and (readdress$3) and (address port) and ((encod$3 encrypt$3) and (payload header)) and packet	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/14 11:15
-	7	@ad<20000905 and (address near port near (encod$3 encrypt$3))	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/04/14 11:15